No.



200000145

## THE UNIVERD SHAVES OF AMERICA

TO ALL TO WHOM THESE: PRESENTS SHALL COME:

# Minnesota Agricultural Experiment Station

DOTCHS, THERE HAS BEEN PRESENTED TO THE

## Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXTIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITIORY AS PROVIDED BY LAW, THE IGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR ORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT TO BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (I) SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEC.

SOYBEAN

'MN1801'

In Testimony Mercest, I have hereunto set my hand and caused the seal of the Plant Incirty Frotection Office to be affixed at the City of Washington, D.C. this eighth day of May, in the year of our Lord two thousand one.

clary of Agriculture

Allest:

alunk. Port

Plant Variety Protection Office Agricultural Marketing Service U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

(Instructions and information collection burden st	atement on reverse)			l until certificate is issued (7 U.S.C. 2426).		
ı <b>NAMEOFOWNER</b> Minnesota Agricultural E	2. TEMPORARY DESIGNA EXPERIMENTAL NAME	STION OR 3. VARIETY NAME				
University of Minnesota		M91-1137	MN1801			
4 ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code	, and Country)		5. TELEPHONE (include an	ea code) FOR OFFICIAL USE ONLY		
190 Coffey Hall 1420 Eckles Avenue		•	612-625-4211	PYPONUMBERO 1 & F		
St. Paul, MN 55108			6. FAX (include area code)			
		R.S.	<del>-612-625-0286</del>	<u> </u>		
	<u> </u>	2/3/00	612-624-772	FILING DATE		
<ol> <li>IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, padnership, association, etc.)</li> </ol>	B. IF INCORPOR STATE OF IN	CATED, GIVE CORPORATION	9. DATE OF INCORPORAT	ion / Jan		
University				21110		
10 NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SER	IVE IN THIS APPLICATION. (F	irst person listed will re	ceive all papers)	FILING AND EXAMINATION FEES:		
J.H. Orf Department of Agronomy and Plant Genet	ics			1:2450		
University of Minnesota 1991 Upper Buford Circle	103			s of		
411 Borlaug Hall St. Paul, MN 55108-6026				E CERTIFICATION FEE:		
35.00 0020		•		¥ . 320 5 c		
			· .			
				DATE 4/23/01		
11. TELEPHONE (Include area code) 12. FAX (Include area code)	×/e)   13. € <sub>.</sub>	MAIL		14. CROP KIND (Common Name)		
612-625-8275 612-625-1268	orf	fxx001@maroon.tc.umn.edu soybean				
15 GENUS AND SPECIES NAME OF CROP	16. F	AMILY NAME (Botanical)  17. IS THE VARIETY A FIRST GENERATION HYBRID?				
Clycine max	Leg	ruminosae 🔲 YES 🔯 NO				
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTE (1995)	D (Follow instructions on	19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act)				
a. M Exhibit A. Origin and Breeding History of the Variety		YES (If "yes", answer items 20 NO (If "no," go to item 22) and 21 below)  20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER				
b. Exhibit B. Statement of Distinctness c. Exhibit C. Objective Description of Variety						
d. 10 Exhibit D. Additional Description of the Variety (Optional)	·	OF GENERATIONS?				
<ul> <li>Exhibit E. Statement of the Besis of the Owner's Ownership</li> <li>Voucher Sample (2,500 viable untreated seeds or, for tuber</li> </ul>	propagated varieties.					
verification that fissue culture will be depositied and maintain repository)		21. IF "YES" TO ITEM 20, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?  [X] FOUNDATION [X] REGISTERED [X] CERTIFIED				
g. X Filing and Examination Fee (\$2,450), made payable to "Tre States" (Mail to the Plant Variety Protection Office)	esurer of the United					
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED OTHER COUNTRIES?	A HYBRID PRODUCED , OR USED IN THE U. S. OR	23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENTY?				
☐ YES ဩ NO	☐ YES Ø NO					
IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOS FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use s	ITION, TRANSFER, OR USE pace indicated on reverse.)	IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER (Please use space indicated on reverse.)				
24. The owners declare that a viable sample of basic seed of the variety w for a luber propagated variety a lissue culture will be deposited in a pu	ill be furnished with application blic repository and maintained	and will be replenished for the duration of the	i upon request in accordance v pertificate.	with such regulations as may be applicable, or		
The undersigned owner(s) is(are) the owner of this sexually reproduce and is entitled to protection under the provisions of Section 42 of the P	d or tuber propagated plant va- ant Variety Protection Act.	riety, and believe(s) tha	t the variety is new, distinct, un	iform, and stable as required in Section 42,		
Owner(s) is(are) informed that false representation herein can jeopardi	ze protection and result in pen	aties.	· · · · · · · · · · · · · · · · · · ·			
SIGNATURE OF OWNER CHURL MINN		SIGNATURE OF O	WNER			
NAME (Please print or type)		NAME (Please prin	t or type)			
Charles C. Muscoplat	·			·		
CAPACITY OR TITLE D	ATE	CAPACITY OR TIT	UE .	DATE		
Director, MAES	2/1/00			Section burden statem		

#### Exhibit A

## Origin and Breeding History of MN1801 Soybean

'MN1801' soybean traces to the F<sub>5</sub> progeny of an F<sub>4</sub> plant harvested from a population that had been advanced by a modified single seed descent procedure from the cross Kasota x Kenwood. Bulked seed of the F<sub>5</sub> row was designated M91-1137 and was used for yield testing in the F<sub>6</sub> (1992). Subsequent tests of strain M91-1137 were conducted in Minnesota in the  $F_7$  (1993) and  $F_8$  (1994). In the  $F_8$  generation 50 typical plants were harvested individually to initiate purification for deservable traits including reaction to race 1 and race 7 of phytophthora root rot. In the F<sub>9</sub> (1995) M91-1137 was entered in the Preliminary Regional Soybean Test Maturity Group I. In 1995 twenty-eight rows were grown for purification purposes. Nineteen rows appeared uniform for plant and seed characteristics including reaction to race 1 and race 7 of phytophthora root rot, therefore seed of these rows was bulked to provide breeder's seed. In the F<sub>10</sub> (1996), F<sub>11</sub> (1997), and  $F_{12}$  (1998) M91-1137 continued to be tested in the Uniform Regional Soybean Test Maturity Group I. In the  $F_{10}$  (1996) a small increase of breeders seed was made. In the F<sub>11</sub> (1997) Foundation Seed was produced by the Minnesota Foundation Seed Organization. In 1998 Foundation seed was made available to other states for increase. In the F<sub>12</sub> (1998) seed was increased and M91-1137 was approved for release as MN1801. On February 15, 1999 seed of MN1801 was released to growers in Minnesota. No off types were noted in the seed multiplication process of MN1801 over three generations. This variety breeds true and meets certification standards.

#### Exhibit B

### **Statement of Distinctiveness**

'MN1801' soybean is most similar to 'Parker' soybean. MN1801 is approximately three days later in maturity than Parker. The yield of MN1801 is about 5% greater than Parker. MN1801 is about 1 inch taller than Parker. MN1801 has a lodging score of 1.8 compared to 2.7 for Parker. Seed of MN1801 is about 1.9 grams per 100 seed smaller than Parker. MN1801 has about 0.6 percent higher protein content and similar oil content compared to Parker. Seed of MN1801 has buff hila the same as Parker. MN1801 has purple flowers while Parker has white flowers.

Data comparing MN1801 is taken from the Uniform Test I, Northern States 1996-1998 (a total of 41 tests for most traits).

Variety	Date Mature	Yield bu/a	Height Inches	Lodging Score	Seed size G/100	Protein %	Oil %
MN1801	9/21	51.3	37	1.8	15.7	42.1	20.3
Parker	9/18	48.9	36	2.7	17.6	41.5	20.3

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, scarching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705 EXHIBIT C (Soybean)

## OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max (L.) Merr.)

		· · · · · · · · · · · · · · · · · · ·			•		
NAME OF APPLIC	Minneso Univers	ta Agricultura ity of Minnesot	ation	FOR OFFICIAL USE ONLY) 0 0 1 4 5			
ADDRESS (Street a	nd No. or R.F.D. No., City,	State, and ZIP Code)				* * * * * * * * * * * * * * * * * * *	
	1420 Ec	fey Hall kles Ave.			VARIETY NAME MN180	1	
	St. Pau	L, MN 55108-60	026	٠.	TEMPORARY OR EXPERIMENTAL I	ESIGNATION	
					M91-1	•	
Place a zero in based on a min recognized colo	the first box (e.g. of the first box (e.g. of the first box of the first b	or o ) when Comparative data shouled to determine plant co	number is either 99 or les	s or 9 or less respective icties entered in the said:	etal character of this variety in t ely. Data for quantitative plant on trial. Royal Horticultural So	haracters should be	
Seed Shape:			·				
2 <b>3</b>	1 = Spherical (L/W, L/T, and T/W ratios < 1.2) 3 = Elongate		4 = Elongat	> 1.2; L/T ratio < e-Flattened			
	,	T/W ratio < 1.2)	(L/1 rano >	1.2;T/W ratio >	1.2)		
Seed Coat Col	or:	•					
1	= Yellow	2 = Green	3 = Brown	4 = Black	5 = Other (Please Specify)		
Seed Coat Lus	ster:			•	4		
2 1	= Dull	2 = Shiny		4			
Seed Size:	•						
1 6 gr	rams/100 seeds			•			
Hilum Color:			- 14g				
	= Buff = Black	2 = Yellow 7 = Other (Please	3 = Brown e Specify)	4 = Gray	5 = Imperfect Blac	: <b>k</b>	
Cotyledon Col	or:					•	

2 = Green

1 = Yellow

## A. MORPHOLOGY (Continued)

## Seed Protein Peroxidase Activity:

 $1 \neq Low$ 

2 = High

## Hypocotyl Color:

4

1 = Green

2 = Green with Bronze

3 = Light Purple

4 = Dark Purple extending to

'Evans' or 'Davis'

Bands below Cotyledon 'Woodworth' or 'Tracy'

below Cotyledons
'Beeson' or 'Pickett 71'

unifoliolate leaves ('Hodgson', 'Coker', or 'Hampton 266A')

## Leaf Shape:

3

1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Please Specify)

## Flower Color:

2

1 = White

2 = Purple

3 = White with a Purple Throat

#### **Pod Color:**

2

1 = Tan

2 = Brown

3 = Black

#### **Pubescence Color:**

1

1 = Grav

2 = Brown (Tawny)

3 = Light Tawny

#### Plant Habit:

3

1 = Determinate

2 = Semi - Determinate

3 = Indeterminate

4 = Intermediate

#### B. DISEASE REACTIONS

0 = Not Tested

1 = Susceptible

2 = Resistant 3 = Tolerant

#### **Bacterial**

0

Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dye)

0 **B** 

Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye, & Wilkie)

0

Wildfire Blight (Pseudomonas syringae pv. tabaci (Wolf & Foster) Young, Dye, & Wilkie)

#### **Fungal**

0

Brown Spot (Septoria glycines Hemmi)

Frogeye Leaf Spot (Cercospora sojina Hara)

0

race 1

10

race 2

0

race 3

0

race 4

0

race 5

10

race 6

 $i^{\alpha}$ 

Other (Please Specify)

0

Target Spot (Corynespora cassiicola (Berk. & Curt.) Wei)

0

Downey Mildew (Peronospora trifoliorum var. manchurica (Naum.) Syd. ex Gäum)

B. 1	DISEASE REACTIONS (Con	tinued)	0 = Not Tested	1 = Suscep	tible $2 = Resista$	nt 3 = To	lerant					
0	Powdery Mildew (Micros	phaera diffi	usa Cke. & Pk.)		20	000	0145					
1	Brown Stem Rot (Phialophora gregata (Allington & Chamberlain) W. Gams.)											
0	Stem Canker (Diaporthe phaseolorum (Cke. & Ell.) Sacc. var. caulivora Athow & Caldwell)											
2	Pod and Stem Blight (Diaporthe phaseolorum (Cke. & Ell.) Sacc. var. sojae (Lehman) Wehm.)											
0	Purple Seed Stain (Cercospora kikuchii (T. Matsu. & Tomoyasu) Gardener)											
0	Rhizoctonia Root Rot (Rh	izoctonia so	olani Kühn)									
Phyto	ophthora Root Rot (Phytophta	hora megas <sub>l</sub>	perma Drechs. f. sp. ;	g <i>lycinea (</i> Ku	an & Erwin))							
2	race 1	0	race 8	0	race 15	0	race 22					
0	race 2	0	race 9	0	race 16	0	race 23					
.2	race 3	0	race 10	0	race 17	0	race 24					
0	race 4	0	race 11	0	race 18	0	race 25					
0	race 5	1	race 12	0	race 19	Ö	race 26					
0	race 6	0	race 13	0	race 20		race 27					
2	race 7	0	race 14	0	race 21		Other (Please Specify)					
0	Bud Blight (Tobacco Ring	spot Virus)	· .									
0	Yellow Mosaic (Bean Yellow Mosaic Virus)											
0	Cowpea Mosaic (Cowpea	Chlorotic V	irus)									
0	Pod Mottle (Bean Pod Mo	ttle Virus)		· ·								
0	Seed Mottle (Soybean Mos	aic Virus)										
Nemai	tode	. 7				•						
Soybe	an Cyst Nematode (Heterodes	ra glycines ]	(chinohe)		•							
0	race 1	1	race 3	0	race 6	0	race 14 (former r. 4					
0	race 2	0	race 5	0	race 9		Other (Please Specify)					
0	Lance Nematode (Hoplolai	mus columi	bus Sher)									
0	Southern Root Knot Nema	tode ( <i>Meloi</i>	idogyne incognita (Ko	ofoid & Whit	te) Chitwood)							
0	Northern Root Knot Nema	tode ( <i>Melo</i>	idogyne hapla Chitwo	ood)								
			. *			•	6					

в. п	SEASE REACTIONS (Continued)	0 = Not Tested	1 = Susceptible		3 = Tolerant	a / C	}
0	Peanut Root Knot Nematode (Mel	oidogyne arenaria (Ne	al) Chitwood)	L V	0000	[ 4 J	<u>.</u>
0	Reniform Nematode (Rotylenchus	reniformus Linwood &	k Olivera)				
0	Javanese Nematode (Meloidogyne j	javanica (Treub) Chit	wood)			-	
	Other Nematode (Please Specify)		· · · · · · · · · · · · · · · · · · ·				
<u>C. P</u>	HYSIOLOGICAL RESPONSES	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant	<u> </u>	
3	Iron Chlorosis on Calcareous Soil	-					
0	Phosphorus						
0	Boron				, a design		
0	Aluminum		•	,			
0	Salt	-			•		
0	Drought						
	Other (Please Specify)			•			•
D. IN	SECT REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant		
0	Mexican Bean Beetle (Epilachna va	vrivestis Mulsant)					
0	Potato Leaf Hopper (Empoasca fab.	ae (Harris))				•	
	Other (Please Specify)		· · · ·				÷
E. HI	ERBICIDE REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant		· · · · · · · · · · · · · · · · · · ·	
0.	Metribuzin		•				•
0	Bentazone						
ō	Sulfonylurea						
0	Glyphosate					andra de la companya	
0	Glufosinate						
0	Pendimethalin						
	Other (Please Specify)			n Vinder of the second of the			
F. TR	ANSGENIC COMPOSITION	· · ·		· .			
Has the	e development of the Subject Variety	*			☐ Yes	X No	
u yes, j	please complete the following informa	ation requests*. Use	additional pages if ne	ecessary.		-	7

F. TRANSGENIC COMPOSITION (Continued)

200000145

- 1. Please state the vector's name:
- 2. Please state the vector components:
- 3. Please describe the genetic material successfully transferred into the Subject Variety:
- 4. Please describe the insertion protocol:
- \* A literature citation(s) explaining the four information requests above may be an acceptable alternative to completion of the "Transgenic Composition" portion of this form.

#### G. BIOCHEMICAL MARKERS

Please describe any biochemical information here which you believe will be helpful in further describing the Subject Variety (e.g. Simple Sequence Repeats, Random Fragment Length Polymorphisms, Isozymic Characterization). Use additional pages if necessary.

H. COMMENTS

8

### U.S. DEPARTMENT OF AGRICULTURE The following statements are made in accordance with the Privacy Act of AGRICULTURAL MARKETING SERVICE 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995. **EXHIBIT E** Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential STATEMENT OF THE BASIS OF OWNERSHIP until certificate is issued (7 U.S.C. 2426). 3. VARIETY NAME 1. NAME OF APPLICANT(S) TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER Minnesota Agricultural Experiment Station University of Minnesota M91-1137 MN1801 6. FAX (include area code) 4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 5. TELEPHONE (include area code) 190 Coffey Hall 612-625-4211 -625\_0286 1420 Eckles Avenue 7. PVPO NUMBER St. Paul, MN 55108 8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain. YES NO NO 9. Is the applicant (individual or company) a U.S. national or U.S. based company? YES Х If no, give name of country If no, please answer one of the following: NO 10. Is the applicant the original owner? X YES a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)? If no, give name of country YES 7 NO b. If original rights to variety were owned by a company(ies), is(are) the original owner(s) a U.S. based company? If no, give name of country ON [ YES 11. Additional explanation on ownership (if needed, use reverse for extra space): The University of Minnesota is the employer of the breeder who developed MN1801. PLEASE NOTE: Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria: 1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species. 2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV

- member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

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